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Diploma in Pharmacy 1st Year

Pharmaceutics

Experiment

To formulate normal saline (sodium chloride)

Aim:

To formulate normal saline (sodium chloride) as per monograph standards and dispense with appropriate packaging and labelling.

Reference :

‘ Dr. Gupta G.D , Dr. Sharma Shailish , Dr. Sharma Neelam ’
“Practical Manual of Pharmaceutics” Published by Nirali Prakashan, Page no 69 – 72

Apparatus and Materials Required :

Volumetric cylinder (100 ml), beaker (250 ml), conical flask (100 ml), syringe, autoclave, stirrer spatula, dispensing balance, sintered glass filter, face mask, gloves, jet bumer, forceps, sodium chloride, and water for injection.

Theory :

- Normal saline is a prescription medication used for intravenous fluid and electrolyte replenishment. Normal saline can be used on its own or in combination with other drugs Crystalloid Fluid is a medication class that includes normal saline
- Sodium chloride injection LP is a sterile, pyrogen-free isotonic solution of sodium chloride in water. It has a sodium chloride content of not less than 0.9% w/w and not more than 0.25% w/v It does not have any antimicrobial properties.
- Sienie water for injection is a single-dose container of sterile, nonpyrogenic distilled water for intravenous injection after the addition of an appropriate solute. It can also be used as a diluent dispensing container. There has been no addition of any antibiotic or other ingredients. The pH level is 5.5. (5.0 to 7.0).

Procedure :

1. The required quantity of sodium chloride should be weighed accurately.
2. Then it should be dissolved in water for injection.
3. The solution should be filtered through sintered glass filter (No. 3 to 5).
4. The solution should be filled in ampoules with the help of syringe taking precaution to minimise bacterial contamination.
5. Alternatively the solution should be filled in clean, dry infusion bottle and rubber bung should be used to close the infusion bottle.
6. Then the bottles should be placed in an autoclave at 121°C (15psi pressure) for 10 minutes.

Formulation

Ingredients	Required Quantity
Sodium chloride I.P.	0.9% w/v
Sterile water for injection	q.s.

Labelling :

Labelling		
Sodium Chloride Injection I.P.		
Normal Saline I.P. (10ml)		
R _x	Ingredient	Quantity
	Sodium chloride	0.9%w/v
Brand Logo	Sterile Water for injection	q.s.
	NO SIDE EFFECT	
IMMEDIATELY USE AFTER OPENING		
Mfg. date: 11/21	Exp. date: 11/24	
Lic No.: 004354	Batch No.: ABC2005	
Storage: Store at room temperature. AVOID FREEZING		

Packaging and Storage :

- 1) Normal saline should be stored at 20 to 25°C (68 to 77°F) and should be dispensed within 4 hours.
- 2) They are packaged in glass ampoules and dry infusion bottles.
- 3) It should be protected from freezing.
- 4) Sodium Chloride Injection, USP solutions are sterile and nonpyrogenic. It should be stored in a cool and dry place.

Result :

The normal saline injection was prepared, packaged and labelled